

(19)



JAPANESE PATENT OFFICE

# PATENT ABSTRACTS OF JAPAN

(11) Publication number: **58139744 A**

(43) Date of publication of application: **19.08.1983**

(51) Int. Cl. **B01J 23/76**  
**B01J 23/78**  
**// C07C 1/04**

(21) Application number: **57021670**  
(22) Date of filing: **12.02.1982**

(71) Applicant: **TOYOTA CENTRAL RES & DEV  
LAB INC**  
(72) Inventor: **FUJITANI YOSHIYASU  
MURAKI HIDEAKI  
KONDO SHIRO  
FUKUI MASAYUKI**

## (54) **SYNTHESIZING METHOD OF HYDROCARBON AND ITS CATALYST**

### (57) Abstract:

PURPOSE: To produce hydrocarbons with high efficiency by pretreating catalyst layers of catalysts consisting of Co and La with the gaseous H<sub>2</sub> fed therein and feeding gaseous raw materials consisting of CO and H<sub>2</sub> thereto.

CONSTITUTION: Catalysts are composed of Co and

5W80wt% La based on the weight of the Co, and are deposited on diatomaceous earth,  $\alpha$ -alumina, alumina- magnesia spinels, etc. These catalysts are pretreated with the gaseous H<sub>2</sub> fed therein for 30minW8hr under the conditions of 300W400°C and  $\leq 10\text{kg/cm}^2$  gaseous H<sub>2</sub> pressure. Raw material gases consisting of CO and H<sub>2</sub> are fed into said catalysts under 5W10kg/cm<sup>2</sup> reaction pressure at 200W300°C reaction temp. after the pretreatment, whereby hydrocarbons are synthesized.

COPYRIGHT: (C)1983,JPO&Japio